

preprogrammed
UNIVERSAL
Remote control



URC - 4130

**TOTAL
CONTROL**

INSTRUCTION MANUAL

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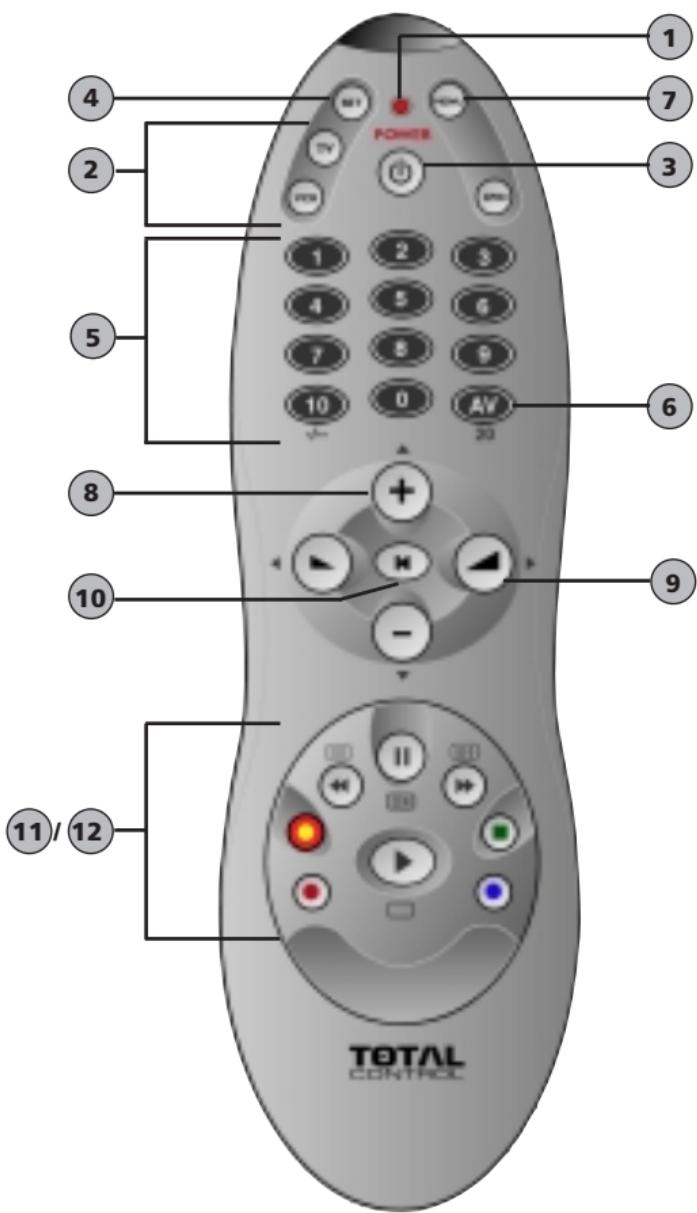
About your TOTAL CONTROL

By choosing the TOTAL CONTROL Universal Remote Control you have opted for easy use. Made of the strictest quality, it will provide long-term satisfaction. Please read these enclosed instructions carefully before putting your TOTAL CONTROL to use.

Your TOTAL CONTROL manual is divided into two parts: Set Up Instructions and Device Codes. You will need your manual to set up your new TOTAL CONTROL so please be sure to keep it.

Your TOTAL CONTROL can operate three devices: a Television, a Video Recorder and a DVD Player.

Your TOTAL CONTROL needs 2 new AA/LR6 batteries.



Installing the Batteries

Your TOTAL CONTROL needs two new AA/LR6 alkaline batteries.

- 1 Remove the battery cover from the back of your TOTAL CONTROL.
- 2 Match the batteries to the (+) and (-) marks inside the battery case, then insert the batteries.
- 3 Press the battery cover back into place.

Features and Functions

Picture of the TOTAL CONTROL on page 3.

① LED

The LED (Light Emitting Diode) flashes red to show the remote is working.

② Device keys

The TV, VCR and DVD keys select the device to be controlled. For example pressing the TV key allows the remote to control the functions of your Television, after pressing the VCR key you can operate your Video Recorder etc.

③ Power key

The Power key controls the same function as on your original remote.

④ SET key

The SET key is used to set up your TOTAL CONTROL and to access special functions.

⑤ Number keys

The number keys (0-9, 10, 20 (AV)) provide functions just like your original remote. If your original remote uses one/two digit input switching (--- symbol), this function can be obtained by pressing the --- key. If your original remote has a 20 key, this function can be found under the AV key.

⑥ AV key

The AV key operates the same function as it did on your original remote control.

⑦ Menu Key

The Menu key controls the same function as it did on your original remote control.

Siera	0104
Silva	0060
Silver	0301
Sinudyne	0027 0104
Solavox	0043
Sonitron	0070
Sonneclair	0095
Sonoko	0301
Sonorlor	0071
Sontec	0060
Sony	0056 0057 0055 0129 1055
Soundwave	0060
Ssangyong	0095
Standard	0301
Starlite	0060 0127
Stern	0301
Sunkai	0371 0301
Sunstar	0023
Suntronic	0023
Sunwood	0095
Supra	0060 0263
Symphonic	0023 0095
Taisho	0027
Tandberg	0301
Tashiko	0023 0071 0263 0104 0060
Tatung	0023 0064 0104 0071 0066 0371 0375
Teac	0064 0023 0301 0060 0104 0330
TEC	0043 0301 0095
TechniSat	0371
Teleavia	0064
Telefunken	0064 0343 0344 0407 0516 0517 0553 0301
Teletech	0095 0301 0023
Tempest	0043
Tenosal	0095
Tensai	0023 0060 0095 0027
Tevion	0371
Thomson	0064 0407 0343 0229 0344 0516 0517 0551
Thorn	0064 0127 0060
Tokai	0095 0060 0064 0127
Tokiwa	0095
Topline	0371
Toshiba	0068 0064 0407 0066 0104
Towada	0095
Trakton	0043
TVA	0043
Uher	0060 0263
Ultravox	0301
Unitech	0263
United Quick	
Star	0301
Universum	0023 0348 0104 0263 0060 0129 0371 0218 0029 0026
Victor	0031 0090
Watson	0104 0375
Weltblick	0060
Yamishi	0095 0301
Yokan	0095
Yoko	0060 0095 0043 0263

DVD

3DLAB	0562
Akai	0634
Denon	0513 0657
Denzel	0688
Diamond	0674
Dual	0688
Enzer	0688
GoldStar	0614
Grundig	0562 0675
Harman/ Kardon	0605
Hitachi	0688 0596
JVC	0581 0646
Kenwood	0557 0513
Kiss	0688
LG	0614
Magnavox	0526
Marantz	0562
Matsui	0674
Micromedia	0526
Micromega	0562
Mitsubishi	0544
Monyka	0688
Neufunk	0688
Onkyo	0635 0526
Optimus	0548
Oritron	0674
Panasonic	0513
Philips	0562 0526
Pioneer	0548 0594
Proline	0675
Raite	0688
REC	0513
Samsung	0596
SEG	0688
Sharp	0653
Sony	0556
Technics	0513
Tevion	0674
Thomson	0574
Tokai	0688
Toshiba	0526
Universum	0614
Yamaha	0513 0568
Yamakawa	0688
Zenith	0526 0614

(8)

Programme (+/-) keys

The Programme (+/-) keys operate just as those on your original remote. If available on your original remote, these keys will allow you to navigate through the menu.

(9)

Volume (+/-) keys

The Volume (+/-) keys operate just as those on your original remote. If available on your original remote, these keys will allow you to navigate through the menu.

(10)

Mute key

The Mute key operates the same function as it did on your original remote. Also, if your original remote control required that you press an “OK” or “ENTER” key during Menu operation, the mute key can be used for this function.

(11)

Video Recorder Keys

After pressing the VCR key, these keys operate the functions of your Video Recorder. To prevent accidental recording on your Video Recorder, the RECORD key must be pressed **twice** to start recording.

(12)

Teletext Keys

After pressing the TV key, these keys are used to operate the main Teletext functions. Of course, your Television must have Teletext capability.

When accessing the text mode, the colour keys marked red, green, yellow and blue, allow you to access the Fastext functions of your Television. If on your original remote control these keys are used for Menu navigation, the TOTAL CONTROL Fastext keys may operate the same. For a more detailed explanation of Teletext and Fastext, please refer to the manual of your Television. Remember, different televisions control Teletext and Fastext functions in different ways. Not all of the Teletext functions may be available on your particular model.

TEXT ON: Puts the television in the Teletext mode.

TEXT OFF: Switches the television back to regular viewing mode. On some televisions, this may be done by pressing the TEXT ON key several times.

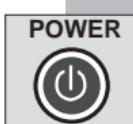
HOLD/STOP: Stops changing pages.

EXPAND: Shows the top half of the Teletext page in larger letters. By pressing again, you can see the bottom half of the Teletext page enlarged. To return to regular Teletext viewing, press the EXPAND key again, or press the TEXT ON key, depending on your television.

Setting up your devices

Example: to set up the TOTAL CONTROL for your Television:

- 1 Find your device code in the code section (page 12 – 21). Codes are listed by brand name. The most popular code is listed first. Make sure your television is switched on (not on standby).
- 2 Press and release the **TV** key on your TOTAL CONTROL.
- 3 Press and hold down the **SET** key until the red light blinks twice (the red light will blink once and then twice).
- 4 Enter your **four-digit code** using the number keys. The red light will blink twice.
- 5 Now, aim your TOTAL CONTROL at your television and press **POWER**. If your television switches off, your TOTAL CONTROL should be ready to control your television.



- If your device does not respond, follow steps 1 through 5 with each code listed for your brand. If none of the codes listed for your brand operate your device, then try the Search Method described on page 7, even if your brand is not listed at all.
- Some codes are quite similar. If your device does not respond or is not functioning properly with one of the codes, try another code listed under your brand.
- If the original remote control from your Video Recorder did not have a Power key, press PLAY instead of POWER during step 5.
- To set up your other devices, follow the same instructions above, only press the appropriate device key during step 2.
- Write your code in the boxes provided in the battery compartment and on page 8, for quick, easy reference.

Devices can be found under the following keys:



- To set up a second TV, VCR or DVD see page 9.

The Search Method

If your device does not respond to the TOTAL CONTROL after you have tried all the codes listed for your brand, try the Search Method. The Search Method may also work if your brand is not listed at all.

Example: to search for your Television code:

1 Switch your Television on (not on standby).



2 Press the **TV** key on your TOTAL CONTROL.



3 Aim the TOTAL CONTROL at your Television. **Press and hold down the SET key** until the red light on the TOTAL CONTROL blinks twice.



4 Press **9 9 1**, the red light will blink twice.



5 Now alternate between the **TV** and **POWER** key, over and over, until your Television turns off.



You may have to press these keys many times (up to 150 times) so please be patient. Remember to keep pointing the TOTAL CONTROL at your Television when pressing these keys.



6 When your Television switches off, press the **SET** key to store the code. Don't forget, as soon as your Television switches off, press the **SET** key. Now, your TOTAL CONTROL should be ready to control your television.

- If you cannot control your Television properly, please continue the Search Method, you may be using the wrong code.
- To search for your other devices, follow the same instructions above, only press the appropriate device key during step 2 and 5.
- If your Video's original remote control does not have a **POWER** key, press **PLAY** instead of **POWER** when searching for your code.

Blink out the Current Code

If you have set up your TOTAL CONTROL via the Search Method, you can blink back your code for future reference.

Example: To blink out your television code:

- 1 Press the **TV** key on your TOTAL CONTROL. 
- 2 Aim the TOTAL CONTROL at your Television. **Press and hold down the SET key** until the red light blinks twice. 
- 3 Press **9 9 0**, the red light will blink twice.   
- 4 For the first digit of your four-digit code, press **1** and count all the red blinks. If there are no blinks, the digit is "0". 
- 5 For the second digit, press **2** and count all the red blinks. 
- 6 For the third digit, press **3** and count all the red blinks. 
- 7 For the fourth digit, press **4** and count all the red blinks. 

- To blink back the code for your other devices follow the instructions above, only press the appropriate device key during step 1.

Quick Code Reference

Write down the codes for your devices in the boxes below and in the battery compartment for quick and easy reference.

Device type	Code
1.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
2.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
3.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Changing a Device key

It is possible to change any device key.

Example 1:

To program a second television on the DVD key you need to change the DVD key into a TV key:

- 1 

The DVD key has now become a second TV key.

- 2 Now enter the Set Up code for your second TV by pressing:



Example 2:

To program a second Video recorder on the DVD key you need to change the DVD key into a VCR key:

- 1 

The DVD key has now become a second VCR key.

- 2 Now enter the Set Up code for your second VCR by pressing:



(*) Hold down the SET key until the red light blinks twice (the red light will blink once then twice).

(**) The red light blinks twice.

Resetting a Device Key

Example: To reset the DVD key press:



(*) Hold down the SET key until the red light blinks twice (the red light will blink once then twice).

(**) The red light blinks twice.

Volume Punch Through

This feature allows you to adjust the volume in a certain mode (e.g. TV mode) while being in a different mode (VCR or DVD).

Last key pressed: You can control:

VCR	TV volume up and down, mute
DVD	TV volume up and down, mute

To punch through to TV volume while in VCR or DVD mode press:
SET(*) 9 9 3 TV key.

To cancel the "Volume Punch Through" press:

SET(*) 9 9 3 Volume(+) (the red light will blink four times).

(*) Hold down the SET key until the red light blinks twice (the red light will blink once then twice).

Colour & Brightness

Depending on the functions of your original remote control, the TOTAL CONTROL can operate the colour and brightness settings of your Television.

To adjust the colour:

Press the **SET** key followed by **Volume +** (for colour +)
or **Volume -** (for colour -).

To adjust the brightness:

Press the **SET** key followed by **Channel +** (for brightness +)
or **Channel -** (for brightness -).

Trouble-Shooting

Problem:	Solution:
Your brand is not listed in the TOTAL CONTROL code section ?	Try the Search Method on page 7.
The TOTAL CONTROL does not operate your device(s) ?	A) Try all the codes listed for your brand. B) Try the Search Method on page 7.
The TOTAL CONTROL is not performing commands properly ?	You may be using the wrong code. Try repeating the Direct Set-Up using another code listed under your brand or start the search method over again to locate the proper code.
Problems changing channels ?	Enter the programme number exactly as you would on your original remote.
Video not recording ?	As a safety feature on your TOTAL CONTROL, you must press the Record key twice.
The TOTAL CONTROL does not respond after pressing a key ?	Make sure you are using new batteries and are aiming the TOTAL CONTROL at your device.
The red light does not blink when you press a key ?	Replace batteries with 2 fresh, new AA/LR6 alkaline batteries.

Customer Service

If you have any questions about the operation of your new TOTAL CONTROL Universal Remote Control, you may call our Customer Service for assistance. Before calling please read this manual carefully to find an answer to your question. If you cannot find a solution in this manual, please complete the information below on all your equipment before calling.

Your TOTAL CONTROL model: URC 4I30

Date of purchase: / /

Day / Month / Year

A list of your equipment/models: (see example below)

Type	Brand	Model No.	Remote Model No.	<u>TOTALCONTROL Code</u>
TV	Saba	TCW 301	MB 100	0648 (ex)

Type/model numbers can often found in your equipment owner's manual or on the factory plate behind the device.

In Australia: 1800 812 261

Opening hours: 8.00 am - 5.00 pm (Mon.-Fri).

Televisions

A.R. Systems	0060			
Abex	0055			
Accent	0060			
Acec	0035			
Admiral	0110 0116 0386 0441 0287			
Adyson	0091 0240 0239 0055 0239 0287			
Agashi	0539			
Agef	0110			
Aiko	0239 0032 0060 0394 0058 0456 0095 0384 0214 0287 0240			
Aim	0060 0297			
Akai	0384 0231 0394 0060 0456 0214 0058 0032 0095 0241 0575 0186 0539 0625 0579 0571 0604 0503 0240 0654 0239 0287 0471 0201 0400 0629			
Akiba	0241 0305 0478 0060			
Akito	0295 0060			
Akura	0241 0382 0305 0032 0381 0435 0194 0287 0060 0516 0691			
Alaron	0202 0239			
Alba	0241 0258 0032 0441 0393 0378 0394 0060 0239 0270 0186 0234 0604 0510 0059 0691 0602			
Alcyon	0234			
Allorgan	0229 0317 0240			
Allstar	0060			
Amplivision	0240 0423 0343 0393			
Amstrad	0200 0032 0539 0287 0377 0241 0394 0456 0194 0435 0060 0671			
Anam	0060 0032 0091			
Anam	National 0060			
Anglo	0032 0287			
Anitech	0032 0091 0287 0060			
Ansonic	0393 0315 0125 0032 0060 0397 0186 0434 0282 0270 0035 0451			
Apollo	0496			
Arc en Ciel	0422 0132 0219 0221			
Arcam	0239 0422 0240			
Ardem	0509			
Aristona	0060 0579 0035			
Arthur Martin	0186 0423			
ASA	0128 0369 0093 0127 0110			
Asberg	0060			
Asora	0032			
Asuka	0241 0287 0239 0305 0240			
Atlantic	0060 0239 0229 0282 0343			
Atori	0032			
Auchan	0186 0423			
Audiosonic	0060 0132 0240 0393 0360 0287 0241 0509 0451			
Audioton	0240 0509 0393 0287			
Autovox	0110 0229 0260 0372 0240 0270 0359			
AWA	0034 0059 0032 0180 0397 0435 0060 0239 0629			
Ayomi	0261			
Baird	0132 0216 0366 0213 0215 0095 0096 0240 0231			
Bang & Olufsen	0588 0110			
Barco	0403 0575 0186			
Basic Line	0241 0032 0397 0060 0590 0186 0305			
Bastide	0240			
Baur	0326 0218 0535 0060 0214 0384 0372 0528 0033			
Bazin	0240			
Beaumark	0201			
Beko	0393 0509 0060 0629			
Beon	0060 0441 0055			
Best	0360 0393			
Bestar	0060 0393 0397			
Binatone	0240			
Black Star	0270			
Blacktron	0305			
Blackway	0305			
Blaupunkt	0214 0218 0223 0350 0351 0471			
Blue Sky	0241 0305 0478 0060 0510 0691			
Blue Star	0305			
Bondstec	0270			
Boots	0295 0240			
BPL	0305 0060			
Brandt	0132 0422 0228 0260 0219 0221 0358 0648			
Brinkmann	0441 0060 0542			
Brionvega	0060 0110 0582			
Britannia	0239 0240			
Brother	0287			
Bruns	0110			
BSR	0186 0317			
BTC	0241			
Bush	0691 0241 0258 0186 0372 0032 0059 0305 0060 0295 0378 0394 0386 0397 0542 0287 0234 0384 0510 0231 0604 0317 0240			
Capsonic	0287			
Carad	0633 0060			
Carena	0478 0060			
Carrefour	0059 0093 0080			
Carver	0193			
Cascade	0032 0060			
Casio	0060			
Cathay	0060			
CCE	0060 0240			
Centurion	0060			
Century	0110 0270 0261			
CGE	0097 0107 0329 0270 0575 0186 0441 0393			
Cimline	0032 0258 0241			
City	0032			
Clarivox	0441 0093			

Clatronic	0241 0287 0393 0394	Elekta	0287 0305
	0240 0270 0060 0032	ELG	0060
	0125 0343 0602	Elin	0239 0060 0128 0127
Clayton	0408		0571 0384 0471 0372
CMS hightec	0240		0186 0032
Concorde	0032	Elite	0241 0060
Condor	0239 0270 0305 0343	Elman	0125
	0060 0393 0032 0125	Elta	0032 0091 0287 0239
	0434 0441	Emerson	0200 0110 0201 0270
Conic	0055		0060 0202 0394 0093
Contec	0239 0032 0180 0034		0305 0343
	0059	Emperor	0305
Continental		Erres	0060 0035
Edison	0132 0260 0219 0221	ESC	0060
	0422 0228 0510	Etron	0060 0032 0186
Cosmell	0032 0360	Eurofeel	0287
Crosley	0110 0270 0097 0107	Euromax	0239 0287 0060 0240
	0575 0186		0393
Crown	0032 0393 0509 0060	Europa	0060
	0382 0602 0441 0231	Europhon	0060 0539 0125 0240
	0510 0076		0270 0575 0186
CS		Expert	0229 0423 0282 0186
Electronics	0270 0239 0241	Exquisit	0060 0270
CTC	0270	Family Life	0060
Curtis		Fenner	0397 0032
Mathes	0116 0168 0189	Ferguson	0096 0215 0213 0358
Cybertron	0241		0261 0216 0132 0583
Daenkyk	0202		0648
Daewoo	0032 0060 0239 0397	Fidelity	0216 0239 0394 0386
	0241 0240 0522 0647		0455 0374 0186 0287
Dainichi	0241 0239		0060
Dansai	0060 0287 0055 0058	Filsai	0240
	0239 0032	Finlandia	0231 0369 0382 0571
Dansette	0435		0384
Dantax	0393 0509	Finlux	0128 0127 0060 0369
Datsura	0231		0240 0095 0575 0186
Dawa	0060		0539 0093 0110 0202
Daytron	0032 0397 0060		0125 0434 0654 0515
de Graaf	0231 0067 0250 0186		0503
	0571	Firstline	0317 0344 0239 0060
Decca	0095 0056 0539 0060		0397 0408 0270 0032
	0267 0295 0240		0575 0186 0125 0240
Deitron	0060		0434 0372 0261 0095
Denko	0287		0258 0691 0231 0647
Denon	0168	Fisher	0127 0240 0059 0080
DER	0216 0213		0231 0393 0578 0068
Derwent	0224		0110 0180 0384 0575
Desmet	0343 0060		0186 0326 0372 0095
Diamant	0060	Flint	0060 0478 0095 0241
Digiline	0060	FNR	0125
Dixi	0032 0060 0270 0240	Forgestone	0216
Domland	0417	Formenti	0110 0239 0343 0575
Doric	0224		0186
Drean	0060	Fortress	0116 0110
DTS	0032	Fraba	0393 0060
Dual	0372 0240 0080 0366	Friac	0032 0060 0125
	0282 0359 0542 0060	Frontech	0270 0287 0372 0386
	0417 0422 0326 0575		0471 0240 0032
	0186	Fujitsu	0202 0229 0095 0125
Dumont	0110 0127 0125 0240		0240 0186 0032
	0093 0095	Fujitsu	
Dux	0060 0035	General	0032 0240
Dynatron	0060	Funai	0287 0202 0317
Elbe	0458 0261 0282 0315	Galaxi	0125 0060
	0393 0186 0060 0241	Galaxis	0393 0441 0060 0125
	0214 0434 0633	GBC	0575 0186 0032 0397
Elcit	0110 0270 0539 0125		0241
	0575 0186		

GE	0583 0132 0201 0305 0358 0366	Hitachi	0248 0059 0372 0379 0067 0066 0496 0186 0575 0366 0601 0219
Geant Casino	0186 0423		0221 0240 0329 0250
GEC	0066 0095 0186 0384 0228 0539 0060 0240 0372		0055 0217 0464 0539 0095 0504 0522 0060
Geloso	0270 0032 0386 0575 0186 0397		0586 0168 0128 0201 0579 0571
General	0132 0494	Hitachi	
General Technic	0032	Fujian	0131
Genexxa	0241 0060 0435 0516	Hitsu	0032 0478 0241
Goldhand	0239	Hornyphone	0060 0035
Goldline	0360	Hoshai	0241 0478
GoldStar	0060 0393 0055 0313 0032 0400 0240 0270 0239 0186 0201 0384 0067	Huanyu	0397 0239
Goodmans	0059 0095 0060 0032 0287 0539 0313 0202 0397 0510 0387 0394 0522 0579 0366 0258 0058 0503 0583 0055 0240 0647 0358	Hygashi	0240 0239
Gorenje	0393	Hyper	0032 0239 0240 0270
GPM	0241	Hypersonic	0384
Gradiente	0060 0076 0193	Hypson	0060 0287 0240 0305 0478 0423 0261
Graetz	0060 0384 0394	Iberia	0060
Granada	0060 0423 0249 0379 0382 0035 0068 0095 0374 0131 0231 0240 0059 0362 0539 0224 0496 0358 0583	ICE	0287 0240 0060 0394 0241 0239 0032
Grandin	0305 0241 0423 0060 0032 0343 0186 0478 0602 0633	Ices	0241 0239
Gronic	0125 0240	Imperial	0060 0270 0393 0441 0575 0186 0097 0107 0372 0219
Grundig	0218 0214 0510 0093 0228 0260 0060 0579	Indesit	0260
Halifax	0287 0239 0240	Indiana	0060
Hampton	0239 0240	Ingelen	0510 0633
Hanimex	0317	Ingersoll	0032
Hanseatic	0060 0315 0305 0372 0186 0384 0417 0343 0080 0451 0393 0032 0317 0240 0542 0110	Inno Hit	0032 0095 0060 0241 0313 0240 0539 0270
Hantarex	0032 0060 0125	Innovation	0542
Hantor	0060	Interactive	0434
Harley Davidson	0202	Interbuy	0032 0287 0270 0091
Harvard	0091	Interfunk	0060 0035 0110 0535 0298 0350 0186 0384 0393 0132
Harwood	0032 0435 0055 0060	Internal	0060
Hauppauge	0060	Intervision	0305 0240 0478 0060 0091 0394 0400 0542
HCM	0287 0032 0305 0435 0240 0241 0441 0060	ITT	0471 0509 0393 0417 0510 0241 0125 0186 0287 0270
Hema	0240 0032	Irradio	0032 0060 0241 0270 0313
Hemmermann	0372	Isukai	0241 0060 0305
Hifivox	0132 0219 0422	ITC	0240
Highline	0287 0060	ITS	0060 0394 0241 0305 0287 0239
Hikona	0241	ITT	0186 0503 0372 0384 0496 0571 0374 0590 0216 0369 0362 0231 0202
Hinari	0231 0202 0059 0060 0241 0032 0186 0387 0378 0466 0234 0510 0258 0317	ITT Nokia	0384 0571 0186 0496 0503 0372 0369 0231 0202 0362 0374 0590 0629 0633 0654
Hisawa	0305 0241 0423 0478	ITV	0287 0060 0270
Hit	0110	Jean	0059
		JEC	0058
		JVC	0676 0076 0117 0213 0059 0215 0216 0394 0241 0629
		Kaisui	0241 0305 0060 0239 0478 0240 0032
		Kamp	0239

Kapsch	0229 0186 0384 0282 0127	Mark	0060 0240 0239 0397 0032
Karcher	0060 0393 0305 0125 0633 0287	Masuda	0241 0032 0394
Kawasho	0239	Matsui	0258 0200 0032 0378 0034 0056 0095 0059
KB Aristocrat	0186		0060 0579 0510 0234 0240 0377 0317 0394
Kendo	0386 0258 0270 0125 0060 0451 0393 0434 0633 0400 0542		0456 0466 0386 0602 0478 0295 0372 0539
Kennedy	0229 0575 0186 0458		0058 0186 0231 0068 0218 0214 0358
Kingsley	0239	McMichael	0066
Kneissel	0458 0282 0315 0393 0261 0060 0434 0633	Mediator	0060 0579 0035
Kolster	0060 0125 0372	Medion	0060 0691 0542
Konka	0241 0394 0060	Megas	0633
Kontakt	0510	Megatron	0168 0201
Korpel	0060	Melectronic	0369 0060 0535 0132 0366 0080 0270 0128
Korting	0110 0393 0343		0127 0397 0032 0240
Kosmos	0060		0091 0503 0515 0239
Kotron	0435 0287		0434 0372
Kraking	0261	Melvox	0423
KTV	0240	Memorex	0032 0201 0273
Kyoshu	0287 0435 0055 0441	Memphis	0360 0095 0032 0408
Kyoto	0408 0055 0186	Mercury	0060 0032
Lecson	0060	Metz	0110 0218 0470 0214 0298 0390 0411 0610
Lemair	0434	MGA	0201
Lenco	0032 0397 0608 0127 0186 0060	Micromaxx	0060 0691
Lenoir	0032	Midland	0055
Lesa	0270	Minerva	0510 0218 0093 0214 0260
Leyco	0287 0095 0060 0317 0602	Minoka	0435 0060 0382
LG	0060 0393 0313 0055 0032 0400 0240 0270 0239 0186 0201 0384	Mitsubishi	0131 0535 0060 0116 0201 0377 0110 0056
Liesenkotter	0060 0350 0351 0035		0059 0224 0260 0381
Lifetec	0032 0287 0542 0060 0397 0241 0691 0535	0216	
Lloyd's	0032	Mivar	0315 0313 0314 0393 0239 0632
Lloytron	0055	Monaco	0032
Loewe	0535 0060 0110 0315 0393	Morgan's	0060
Logik	0034 0056 0216 0394	Motorola	0116
Logix	0691	MTC	0393 0372 0535 0239
Luma	0386 0229 0060 0186 0282 0434 0397 0032	MTEC	0295 0055
Lumatron	0386 0229 0060 0186 0282 0384 0240 0287 0096	Multibroadcast	0216
Lux May	0060 0032	Multimat	0455
Luxor	0217 0260 0313 0386 0503 0515 0372 0384 0231 0379 0571 0186 0369 0496 0202	Multistandard	0125 0455
LXI	0201	Multitec	0060 0691 0240 0372 0032 0239 0270 0125 0386 0509 0393 0060
Madison	0060	Murphy	0127 0239 0095 0186
Magnadyne	0110 0270 0539 0125 0575 0186	Musikland	0241
Magnafon	0539 0125 0239	NAD	0384 0189 0201
Magnavox	0059 0202 0060	Naiko	0060
Magnum	0671	Nakimura	0397 0060
Mandor	0287	Naonis	0386
Manesth	0060 0258 0240 0287 0343 0058 0317	NAT	0237 0249 0363
Manhattan	0060 0691	National	0260 0237 0249 0363
Marantz	0060	NEC	0193 0059 0343 0478 0032 0397 0240 0060
Marelli	0110		0034
		Neckermann	0060 0214 0393 0528 0033 0223 0579 0575
			0186 0350 0441 0372 0110 0270 0240 0434
		NEI	0060 0360 0394

Nesco	0270	0202	Panavision	0060	0434
Netsat	0060		Pathe		
Network	0055	0360	Cinema	0186	0261 0239 0423
Neufunk	0060	0032 0608 0579		0343	0315 0372
	0633		Pathe		
New Tech	0060	0032 0579 0366	Marconi	0228	0132 0219 0221
	0240	0471		0422	0260
New World	0241		Pausa	0032	
Nicamagic	0239		Perdio	0095	0343 0186 0060
Nikkai	0095	0241 0060 0240	Perfekt	0060	
	0287	0055 0058 0360	Pershin	0423	
	0239	0032 0059	Phase	0055	
Nikko	0201		Philco	0110	0107 0097 0441
Noblex	0060	0287		0270	0575 0186 0393
Nobliko	0125	0093 0239		0060	0168
Nogamatic	0422	0132 0219	Philharmonic	0240	
Nokia	0384	0186 0503 0372	Philips	0060	0579 0035 0214
	0571	0515 0382 0496		0066	0110 0216 0446
	0374	0362 0231 0397		0366	0397
	0654	0629 0369	Phoenix	0060	0110 0343 0509
Nordmende	0132	0422 0219 0366		0393	0408 0239 0575
	0221	0583 0218 0060		0186	0095
	0358		Phonola	0060	0579 0035 0110
Novatronic	0060	0128 0397		0216	0239
Oceanic	0590	0186 0423 0384	Pilot	0060	0579
	0317	0231 0586	Pioneer	0189	0060 0446 0451
Odeon	0287			0393	0366 0384 0132
Okano	0393	0060 0287 0095	Pionier	0393	0509
Omega	0287		Plantron	0060	0287 0032
Onwa	0394	0625 0241 0456	Playsonic	0240	
	0604		Poppy	0032	
Opera	0060		Portland	0397	
Optimus	0273	0189	Powerpoint	0510	
Optonica	0116		Prandoni-		
Orbit	0060		Prince	0270	0539 0384 0386
Orion	0202	0258 0317 0200	Precision	0240	
	0343	0378 0034 0060	Prima	0055	0032 0287
	0032	0344 0387 0234	Prinz	0095	0080 0372 0217
	0125	0466 0579 0287	Profex	0032	0186
	0435		Profitronic	0060	0125
Orline	0060	0241	Proline	0344	0095 0060 0035
Ormond	0408	0691		0648	
Osaki	0095	0241 0055 0240	Prosonic	0060	0237 0239 0393
	0287	0516 0060 0435		0397	0602 0394 0691
	0295	0397 0234	Protech	0060	0240 0032 0270
Oasio	0060			0372	0125 0287 0441
Oso	0241			0360	0691
Osume	0180	0095 0059 0055	Proton	0201	
	0241		Provision	0522	0060
Otto Versand	0033	0528 0059 0116	Pye	0060	0397 0579 0035
	0535	0060 0579 0218		0110	
	0372	0214 0384 0258	Pymi	0032	
	0132	0317 0249 0270	Quadra		
	0326	0343 0240	Vision	0423	
Pael	0239		Quasar	0270	0273
Palladium	0393	0060 0214 0528	Quelle	0060	0033 0034 0132
	0033	0223 0441 0579		0535	0372 0214 0384
	0270	0350 0372 0110		0055	0059 0240 0270
	0575	0186 0240 0434		0097	0107 0350 0329
	0542			0093	0127 0128 0180
Palsonic	0287	0435 0060 0240		0218	0223 0287 0313
	0400			0691	
Panama	0032	0240 0287 0239	Questa	0059	0055
	0060	0270	R-Line	0060	
Panasonic	0249	0673 0273 0149	Radialvalva	0132	0241 0186 0060
	0297	0237 0384 0260	Radiola	0060	0579 0035
	0390	0363 0539 0060	Radiomarelli	0110	0224 0539 0270
	0186	0571 0374		0060	

RadioShack	0060	0055	0201	Seleco	0229	0386	0282	0186
Radiotone	0032	0060	0451		0434			
	0602	0441	0287	Sencora	0032			
	0671			Sentra	0058	0241	0032	
Rank	0093			Serie Dorada	0201			
RCA	0583	0648	0358	Serino	0478	0633		
Realistic	0055	0201		Sharp	0116	1116	0180	0059
Recor	0060				0317	0676	0076	0117
Rectiligne	0060				0216			
Rediffusion	0224	0384	0374	Shorai	0317	0202		
	0059			Siam	0060			
Redstar	0060			Siarem	0575	0186	0110	0125
Reflex	0060			Siemens	0214	0223	0218	0350
Revox	0060	0393			0351	0180	0055	0060
Rex	0229	0386	0434	Siera	0060	0579	0035	
	0270			Siesta	0393			
	0186	0282		Silva	0239	0060		
RFT	0110	0315	0393	Silver	0059	0060	0384	0202
	0451			Singer	0110	0125	0270	0423
Rhapsody	0239				0458	0032	0060	
Roadstar	0032	0287	0241	Sinudyne	0200	0110	0258	0125
	0441				0317	0575	0186	0384
	0060				0539	0372	0033	0229
Robotron	0110				0060			
Rodox	0060			Skantic	0379			
Roxy	0471			Sky	0060			
Royal Lux	0393	0435		Sogera	0343			
Saba	0648	0110	0422	Solavox	0055	0384	0095	0186
	0186				0571			
	0132	0539	0366	Sonawa	0241			
	0384			Sonitron	0231	0393	0362	0240
	0521	0219	0221	Sonneclair	0060			
	0358			Sonoko	0060	0032	0287	0305
	0228	0571			0240			
Sagem	0478	0633	0305	Sonorolor	0231	0590	0186	0423
Saisho	0258	0539	0200		0528	0033	0571	0384
	0032			Sontec	0060	0393	0317	
	0034	0056	0240	Sony	0528	0674	0033	0034
	0186				0059	0125	0097	
Salora	0313	0217	0372	Sound &				
	0186			Vision	0125	0241	0397	
	0379	0382	0384	Sounddesign	0201	0202		
	0387			Soundwave	0060	0343	0441	0055
	0539	0386	0571	Spectra	0032			
Sambers	0539	0125		Ssangyong	0055	0032		
Sampo	0055			Stag	0055			
Samsung	0060	0579	0610	Standard	0241	0032	0240	0343
	0032				0060	0397		
	0240	0201	0471	Starlite	0032	0575	0186	0060
	0393				0287			
	0287	0239	0313	Stenway	0305	0241		
	0055			Stern	0229	0282	0186	0386
	0095	0231	0667	Strato	0060	0287	0032	
Sandra	0239	0240		Sunkai	0317	0378	0344	0478
Sanela	0261				0241	0258	0060	0510
Sansui	0060	0394		Sunstar	0394	0060	0032	0602
Santon	0032			Sunwood	0060	0032		
Sanyo	0231	0180	0315	Superla	0539	0239		
	0059			SuperTech	0032	0060	0239	0579
	0034	0393	0362		0241			
	0095			Supra	0397	0032		
	0239	0240	0127	Susumu	0358			
	0068			Sutron	0032			
	0608	0032	0186	Swissline	0270			
	0060			Sydney	0239	0240		
	0578			Symphonic	0194			
Save	0060			Sytong	0239			
SBR	0060	0579	0035	Tactus	0295			
Schaub								
Lorenz	0372	0571	0629					
Schneider	0060	0579	0035					
	0080							
	0326	0372	0542					
	0417							
	0359	0282	0366					
	0240							
	0270	0394	0241					
	0384							
	0186	0691	0671					
Scott	0201	0202						
Sears	0194	0201	0202					
SEG	0240	0287	0032					
	0270							
	0059	0125	0186					
	0060							
	0239	0691	0510					
SEI	0110	0125	0033					
	0575							
	0186	0539	0372					
	0317							
	0229	0060						

Tandberg	0390 0434 0132 0360	Transtec	0239
	0219 0384	Trident	0539 0240
Tandy	0241 0095 0240 0270	Tristar	0241 0216
	0116	Triumph	0200 0539 0369 0579
Tashiko	0059 0066 0240 0193		0060 0266
	0055 0239 0382 0186	Uher	0060 0080 0229 0343
Tatung	0095 0539 0240 0295		0326 0397 0441 0509
	0060 0034 0267	Ultra	0393 0282
Teac	0060 0535 0478 0287	Ultravox	0215
	0032 0194 0435 0372		0110 0125 0397 0270
	0201		0239 0575 0186 0060
TEC	0240 0032 0270 0494	Unic Line	0060 0496
	0358 0360 0282 0575	United	0060
Tech Line	0060 0691	Universum	0369 0128 0218 0496
Techica	0241		0384 0270 0515 0503
Technema	0343		0393 0223 0441 0034
Technics	0273		0535 0317 0059 0180
Tedelex	0240		0055 0093 0575 0186
Teiron	0032		0287 0127 0060 0434
Teknika	0202		0313 0097 0329 0350
Teleavia	0132 0219 0422 0228		0351 0033 0528 0372
Telecor	0060 0186 0241 0240		0240 0132 0360 0200
	0282 0417		0654 0691
Telefunken	0132 0521 0494 0422	Univox	0360 0110 0060 0186
	0097 0107 0124 0358		0261
	0285 0329 0096 0366	Vestel	0060 0575 0186 0240
	0219 0060 0509 0648	Vexa	0032 0060
Telefusion	0060	Victor	0076
Telegazi	0060 0186 0282 0241	Videologique	0239 0241 0240
	0287	VideoSystem	0060
Telemaster	0343 0060	Videotechnic	0239 0343 0240 0397
Telesonic	0060	Videoton	0379 0186
Telestar	0060	Vidikron	0125
Teletech	0032 0270 0360 0060	Vidtech	0059 0201
	0691	Viper	0360
Teleton	0240 0298 0229 0186	Visiola	0239
	0372 0282 0059	Vision	0060 0343
Televideo	0343 0575 0186 0239	Visorex	0455
Televiso	0423	Vistar	0229 0384
Temco	0317	Vortec	0060
Tempest	0032 0060	Voxson	0110 0060 0386 0441
Tennessee	0060	Waltham	0240 0379 0441 0408
Tensai	0127 0241 0060 0240		0060
	0317 0343 0032 0128	Watson	0060 0343 0186 0241
	0397 0394 0400 0270		0602 0542 0417 0032
Tenson	0343 0032		0691
Tevion	0542 0060 0671 0691	Watt Radio	0125 0372 0575 0186
Texet	0240 0397 0032		0239
Thomson	0422 0132 0494 0358	Wega	0059 0110 0060
	0219 0221 0228 0260	Wegavox	0032
	0366 0060 0583 0648	Weltblick	0060 0343
Thorn	0216 0096 0213 0261	Wharfedale	0060 0542
	0215 0097 0107 0522	White West-	
	0060 0127 0358 0535	tinghouse	0343 0239 0060 0360
	0382 0295 0397 0058	Winco	0435
TMK	0201	Windstar	0305
Tokai	0095 0060 0471 0360	Xrypton	0060
	0186 0240 0397 0032	Yamishi	0305 0478 0241 0060
Tokyo	0239 0058 0471		0240
Tomashi	0305 0241	Yokan	0060
Toshiba	0058 0531 0266 0059	Yoko	0240 0060 0241 0287
	0093 0125 0240		0032 0393 0362 0239
Towada	0372 0125 0240	Yorx	0270
Toyoda	0032	Zanussi	0229 0386 0240
Trakton	0287	Zenor	0362
Trans			
Continens	0240 0060		
Transonic	0060 0478 0610 0535		

VCR

Adelsound 0027
Adyson 0095
Aiwa 0330 0023 0064 0371
0375 0060
Akai 0129 0338 0064 0043
0375 0263
Akiba 0095
Akura 0095 0064
Alba 0301 0095 0356 0357
0375 0043 0023 0338
0371
Allorgan 0263
Allstar 0104
Ambassador 0043
Amstrad 0023 0348 0301 0095
Anitech 0095
Ansonic 0027
Aristona 0104
ASA 0060 0104
Asuka 0095 0060 0104 0023
0061
Audiosonic 0301
Audioton 0043
AWA 0098 0060 0301 0066
Baird 0129 0301 0127 0130
0064 0023
Bang & Olufsen 0036 0522
Basic Line 0301 0043 0095
Bestar 0301 0043
Black Panther 0301
Blaupunkt 0249 0104 0177 0250
0185 0029 0218 0026
0057
Blue Sky 0060 0371 0095 0375
Bondstec 0043 0095
Bosch 0177
Brandt 0064 0229 0343 0344
0516
Brinkmann 0371
Bush 0095 0301 0338 0356
0357 0375 0316 0023
0371
Carena 0104
Carrefour 0068
Casio 0023
Cathay 0301
Catron 0043
CGE 0064 0023
Cimline 0095
Clatronic 0043 0095
Combitech 0375
Condor 0043 0301
Crown 0301 0095 0043
Daewoo 0301 0043 0068 0375
Dansai 0095 0301
Daytron 0301
de Graaf 0065 0189 0104 0127
0071 0069
Decca 0023 0064 0104 0031
0090 0371
Deitron 0301
Denko 0095
Diamant 0060
Dual 0064 0104 0301 0023

Dumont 0023 0104 0127
Elbe 0301 0061
Elcatech 0095
Elin 0263
Elsay 0095
Elta 0095 0301
Emerson 0095 0068
ESC 0301 0263 0043
Etzuko 0095
Europhon 0043
Fenner 0043
Ferguson 0130 0064 0343 0344
0516 0023 0301
Fidelity 0023 0095 0348 0263
Finlandia 0127 0104 0065 0189
0023 0071
Finlux 0023 0104 0127 0065
Firstline 0095 0371 0066 0060
0068 0065 0316 0301
Fisher 0070 0127 0069 0061
0043
Frontech 0043
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Funai 0023
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Goldhand 0095
GoldStar 0060 0023
Goodmans 0023 0095 0263 0301
0085 0060 0043 0366
0104 0371 0316
Gradiente 0031
Graetz 0064 0127 0263
Granada 0127 0069 0071 0104
0029 0263 0060 0249
0065 0023
Grandin 0095 0060 0043 0023
0301
Grundig 0030 0218 0104 0370
0249 0026 0029 0343
0371
Hanimex 0375
Hanseatic 0060 0301 0104
Hantor 0043
Harwood 0095
HCM 0095
Hinari 0027 0095 0316 0375
0064 0366 0301
Hisawa 0375
Hitachi 0065 0189 0064 0023
0263 0104 0027 0127
Hornyphone 0104
Hypson 0095 0301 0375
Impego 0043
Imperial 0023 0263
Ingersoll 0027 0263
Inno Hit 0043 0263 0301 0095
Interbuy 0060 0095
Interfunk 0104 0127
Internal 0301
International 0301
Intervision 0023 0301 0060 0371
Irradio 0095 0060 0104

ITT	0129 0064 0069 0407	Osume	0316
	0127 0263	Otake	0356 0357
ITT Nokia	0071	Otto Versand	0104
ITV	0301 0060 0043	Palladium	0095 0338 0060 0064
JVC	0064 0090 0031 0229		0029 0027 0263
	0230 0407	Palsonic	0095 0023
Kaisui	0095	Panasonic	1185 0185 0477 0249
Karcher	0301		0250 0482
Kendo	0129 0338 0371 0095	Pathe	
	0060	Cinema	0027 0066
Kenwood	0064 0061	Pathe	
Kimari	0070	Marconi	0064
Kneissel	0375 0371 0060	Perdio	0023
Korpel	0095	Philco	0061 0095
Kuba	0070	Philips	0104 0029
Kuwa	0249	Phonola	0104
Kyoto	0095	Pioneer	0090 0104 0065
Leyco	0095	Portland	0043 0301
LG	0060 0023 0301	Prinz	0023
Lifetec	0371	Profitronic	0104 0263
Loewe	0104 0029 0060 0027	Proline	0023 0316 0343 0344
	1185 0185 0477	Prospo	0301
Logik	0027 0263 0095 0129	Prosonic	0301 0023
Lumatron	0301	Protech	0104
Luxor	0129 0069 0066 0095	Provision	0301
	0085 0127 0070 0071	Pye	0104
Magnavox	0104	Quelle	0029 0104
Manesth	0095 0068 0104	Radialva	0060 0095 0104 0071
Marantz	0104 0061 0029 0085	Radiola	0104
	0026	Rank	0064
Mark	0301 0043	Rex	0064 0407
Matsui	0027 0371 0060 0263	RFT	0043 0095
	0375 0023	Roadstar	0263 0095 0060 0301
Mediator	0104	Royal	0095
Medion	0371 0375	Saba	0064 0229 0230 0343
Melectronic	0023 0060 0061		0344 0407 0517 0085
Memorex	0127 0023 0069 0060		0301
	0071 0070	Saisho	0027 0371
Memphis	0095	Salora	0069 0066 0129 0127
Metz	0218 0370 0104 1185	Samsung	0263 0455
	0185 0477 0249 0250	Samurai	0043
	0482 0029 0026	Sansui	0064 0090 0129 0095
Micormay	0371		0371
Migros	0023	Sanwa	0027
Minerva	0218	Sanyo	0127 0069 0070 0071
Mitsubishi	0066 0090 0098 0104		0090
Multitech	0023 0095 0043 0127	Saville	0375 0301 0263
Murphy	0023	SBR	0104
NAD	0127	Scan Sonic	0263
National	0249 0185	Schaub	
NEC	0064 0061 0090 0127	Lorenz	0064 0127 0023 0129
	0060		0338
Neckermann	0064 0029 0104	Schneider	0095 0023 0060 0104
Nesco	0095 0023 0375		0301 0263
Nikkai	0043 0095 0301	Seaway	0301
Nokia	0127 0129 0338 0064	SEG	0095 0263 0301 0098
	0301 0069 0263 0071	Sei-Sinudyne	0027 0104
	0065 0104	Seleco	0064 0031 0407 0043
Nordmende	0064 0407 0343 0344		0060
	0230 0517 0551 0090	Semivox	0068
	0516	Sentra	0095 0043 0316
Oceanic	0023 0071 0129 0104	Setron	0095
	0127 0064 0069	Sharp	0071 0085 0060
Okano	0338 0371 0095 0301	Shintom	0095 0127
Orion	0027 0375 0366 0371	Shivaki	0060
	0356 0357	Shorai	0027
Orson	0023	Siemens	0218 0029 0060 0127
Osaki	0023 0060 0095		0030 0104 0026

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